

**Leak Detector Comprising an Inlet**

**Abstract:**

The invention relates to a leak detector (1) comprising: an inlet (2); a high-vacuum pump (3); a test gas detector (6), which is connected to the entry of the high-vacuum pump (3); a backing pump (43), which is connected to the outlet area (21) of the high-vacuum pump (3), and; a test gas line (47, 55) running between the inlet (2) of the leak detector (1) and the backing pump (43), which is connected to the outlet area (21) of the high-vacuum pump (3) via a line section (51). In order to shorten the response time of the leak detector, the invention provides that the line (51) and the backing pump (43) are connected via separate connections (46, 22) to the outlet area (21) of the high-vacuum pump (3).

(Drawing figure 1)